

0560
OIPE

#3

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/767,041
 DATE: 02/05/2001
 TIME: 14:01:05

Input Set : A:\sequence.txt
 Output Set: N:\CRF3\02052001\I767041.raw

3 <110> APPLICANT: Smith, Hilda
 5 <120> TITLE OF INVENTION: STREPTOCOCCUS SUIIS VACCINES AND DIAGNOSTIC TESTS
 7 <130> FILE REFERENCE: 2183-4726
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/767,041
 C--> 9 <141> CURRENT FILING DATE: 2001-01-22
 9 <150> PRIOR APPLICATION NUMBER: PCT/NL99/00460
 10 <151> PRIOR FILING DATE: 1999-07-19
 12 <150> PRIOR APPLICATION NUMBER: EP98202465.5
 13 <151> PRIOR FILING DATE: 1998-07-22
 15 <150> PRIOR APPLICATION NUMBER: EP98202467.1
 16 <151> PRIOR FILING DATE: 1998-07-22
 18 <160> NUMBER OF SEQ ID NOS: 53
 20 <170> SOFTWARE: PatentIn version 3.0
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 24 <212> TYPE: DNA
 25 <213> ORGANISM: Artificial
 27 <220> FEATURE:
 28 <223> OTHER INFORMATION: Primer
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 49 <213> ORGANISM: Artificial
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 59 <211> LENGTH: 19
 60 <212> TYPE: DNA
 61 <213> ORGANISM: Artificial
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 70 <210> SEQ ID NO: 5
 71 <211> LENGTH: 21

ENTERED
 See page 5

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 PATENT APPLICATION: US/09/767,041 TIME: 14:01:05

Input Set : A:\sequence.txt
 Output Set: N:\CRF3\02052001\I767041.raw

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154	accatagcat	tgtaactttt	tccacaaatt	tttataagcc	tagtcatatc	atgatgaaac	780
156	gactttttgga	tatactcggg	gcggtagtcg	ggtraattat	ttgtgggata	gtttctattt	840
158	tgtttagttcc	aattattcgt	agagatgggt	gaccggctat	ttttgctcag	aaacgagttg	900
160	gacagaatgg	acgcataatt	acattctaca	agtttcgata	gatgtatgtt	gatgctgagg	960
162	agcgcaaaaa	agacttgctc	agccaaaacc	agatgcaagg	gtgggtatgt	tttaaaatgg	1020
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166	agttaccaca	gttttataat	gttttaattg	gcgatatgag	tctagtttgt	acacgtccac	1140
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178	ggaaggaaga	agaacgtttt	tggttaacat	ttgataaaga	ggatgcaaga	agttctttga	1500
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192	taatcgattg	ataaaagaga	ttgattttatt	gaaaaaaaat	ggaagtataa	ccgacgaaat	1920
194	atttattcaa	acaggatatt	ctgactatat	tccagaatat	tgcaagtata	aaaaatttct	1980
196	cagttacaaa	gaatgggaac	aattatattaa	caaatcagaa	glagtatttt	gccacggagg	2040
198	ccccgctact	tttatgaatt	cattatccaa	aggaaaaaaa	caattlatgt	ttcctagaca	2100
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226	tctcctattg	tctttacaga	tgaattctatt	gatgaattgc	taaatgcaag	aaatttaggt	2940
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230	aaaaaataaa	atagtttgatt	ttgtgagagt	aatgtatgtt	taaaattattt	aaatatgacc	3060
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234	tatttttatt	aatttttatg	aattttaattt	tatttcatat	aaaatttttg	aaaactaagc	3180
236	ttaataataa	aaatgaaatt	ttattgtttt	tattatggct	tattattatgt	ttgttttcag	3240
238	tagtcacaa	tatgttttgt	gaaataaatt	ttgaaagatt	atttgcagat	tttactgctc	3300
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RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/767,041
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Input Set : A:\sequence.txt
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254 ttgcttggat aaaaaagcta atagtaatat ttgtaatact acttattatt ttaaatactg 3780
256 aattgcttta ccatgaaatt ttgctgtttt ataattctag agaatcaagt aacgaagcta 3840
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268 ctccaatagg tatttgggat aatataaatt ttaaaaagga tatggagaca aaaaatgaat 4200
270 gatttaattt cagttattgt accaatttat aatgtccaag attatcttga taaatgtatt 4260
272 aacagtatta ttaaccaaac atataactaat tttagaggta ttctcgtaaa tgatggaggt 4320
274 actgatgatt ctgagaaaat ttgcttaaac tatatgaaga acgatggaggt aattaaatat 4380
276 tacaaagaaa ttaattggcg tctagcagat gctcgaaatt tcggactaga acatgcaaca 4440
278 ggtaaaataa ttgcttttgt cgattctgat gactatatag aagttgcaat gttcgaagga 4500
280 atgcatgata atataactca gtataatgcc gatatagcag agatagattt ttgtttagta 4560
282 gacgaaaacg ggtatacaaa gaaaaaagga aatagtaatt ttcattgtctt aacgagagaa 4620
284 gagactgtaa aagaattttt gtcaggatct aatatagaaa ataattgttg gtgcaagctt 4680
286 tattcacgag atattataaa agatataaaa ttccaaatta ataatagaag tattggtgag 4740
288 gatttgcctt ttaatttggg ggtcttgaac aatgtaacac gtgtagtagt tgatactaga 4800
290 gaataattat ataattatgt catctgtaac agttcgctta ttaatcagaa attctctata 4860
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340 aagaaatttc tttagcatat gcgaagaaag atagtcgcat tcgttatttt aaaaaagaga 6360
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RAW SEQUENCE LISTING DATE: 02/05/2001
 PATENT APPLICATION: US/09/767,041 TIME: 14:01:05

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354 tcacttatcg cttgctctat gagttagaaa aagttgcaat agttaaggag tgcttgtact 6780
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358 qcctactgga atttcaaaat gaacgaatgg acttctatga aagtagagga gataaagagc 6900
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372 <223> OTHER INFORMATION: ORF2Z
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384 35 40 45
386 Gly Ser Phe Asn Ala Ala Arg Val Ala Arg Asp Met Tyr Ile Glu Glu
387 50 55 60
389 His Pro Asn Val Asn Ile His Leu Ile Asp Ser Leu Ser Ala Ser Gly
390 65 70 75 80
392 Glu Met Asp Leu Leu Val His Gln Ile Asn Arg Leu Ile Ser Ala Gly
393 85 90 95
395 Leu Asp Phe Pro Gln Val Val Glu Ala Ile Thr His Tyr Arg Glu His
396 100 105 110
398 Ser Lys Leu Leu Phe Val Leu Ala Lys Val Asp Asn Leu Val Lys Asn
399 115 120 125
401 Gly Arg Leu Ser Lys Leu Val Gly Thr Val Val Gly Leu Leu Asn Ile
402 130 135 140
404 Arg Met Val Gly Glu Ala Ser Ala Glu Gly Lys Leu Glu Leu Gln
405 145 150 155 160
407 Lys Ala Arg Gly His Lys Lys Ser Val Thr Ala Ala Phe Glu Glu Met
408 165 170 175
410 Lys Lys Ala Gly Tyr Asp Gly Gly Arg Ile Val Met Ala His Arg Asn
411 180 185 190
413 Asn Ala Lys Phe Phe Gln Gln Phe Ser Glu Leu Val Lys Ala Ser Phe
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419 Tyr Ala Glu Glu Gly Gly Leu Leu Met Gly Tyr Glu Val Lys Ala
420 225 230 235
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423 <211> LENGTH: 244

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 02/05/2001
PATENT APPLICATION: US/09/767,041 TIME: 14:01:06

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Output Set: N:\CRF3\02052001\I767041.raw

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L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:1424 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:3440 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:3462 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:3553 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:3556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52